



1600

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/651,150B

DATE: 11/28/03

1. *What is the best way to learn?*

Input Set : D:\seqlist.txt

Output Set: N:\CRF4\11082002\I651150B.raw

5 <110> APPLICANT: Payan, Bonalj  
9 <120> TITLE OF INVENTION: TOSO AS A TARGET FOR DRUG SCREENING  
13 <130> FILE REFERENCE: RIGL-503CON  
17 <140> CURRENT APPLICATION NUMBER: US 09/651,150B  
19 <141> CURRENT FILING DATE: 2010-08-30  
23 <150> PRIOR APPLICATION NUMBER: US 09/050,861  
27 <151> PRIOR FILING DATE: 1998-05-30  
31 <160> NUMBER OF SEQ ID NO: 31  
33 <170> SOFTWARE: PatentIn version 3.1  
37 <210> SEQ ID NO: 1  
39 <211> LENGTH: 1911  
41 <212> TYPE: RNA  
43 <213> ORGANISM: Homo sapiens  
47 <400> SEQUENCE: I

44	aaagggttca	ccatgttttc	tccatccccc	tctcttgggg	ctttggatg	gaccctttat	60
50	tcttggaaat	ccatgttttc	tcttttttgg	ggccatttac	tttcttgcag	tatctatgtt	120
51	ctttaggatc	ctccccaaat	tuaagggttg	ggggggatcg	ggggggatcg	tttccatccaa	130
52	atgtccat	ctgttttttc	atgttggat	atatctgtgc	cgggagatgg	cttggatctaa	240
53	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	350
54	tactctttat	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
55	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	420
56	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	480
57	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	540
58	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	600
59	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	660
60	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	720
61	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	780
62	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	840
63	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	900
64	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	960
65	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1020
66	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1080
67	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1140
68	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1200
69	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1260
70	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1320
71	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1380
72	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1440
73	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1500
74	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1560
75	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1620
76	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1680
77	tttttttttt	ccatgttttc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1740

RAW SEQUENCE LISTING

INVENTION ALLEGATION: US/09/651,150B

Input file : D:\seqlist.txt

Output Set: N:\CRF4\11082002\I651150B.raw

## RAW SEQUENCE LISTING

PARENT APPLICATION: US/09/651,150B

DATE: 11/08/2002

TIME: 10:17:13

Input Set: D:\seqlist.txt

Output Set: N:\CRF4\11082002\I651150B.raw

206 53 330 344  
 209 Gly Pro Gly Ala Ile Leu Pro Pro Ala Pro Leu Gln Val Ser Thr Ser  
 210 44 341 345  
 213 Pro Trp Leu His Ala Ile Ser Leu Lys Thr Ser Cys Gln Tyr Val Ser  
 214 44 360 364  
 217 Leu Tyr His Gln Ile Ala Ala Met Met Gln Asp Ser Asp Ser Asp Asp  
 218 376 377 380  
 221 Tyr Ile Asn Val Pro Ala  
 222 385 396  
 223 <10> SEQ ID NO: 3  
 224 <11> LENGTH: 78  
 225 <12> TYPE: PPT  
 226 <13> ORGANISM: Homo sapiens  
 227 <400> SEQUENCE: 3  
 228 Val Thr Ile Lys Cys Pro Leu Pro Glu Met His Val Asn Ile Tyr Leu  
 229 1 5 10 15  
 230 Cys Arg Glu Met Ala Gly Ser Gly Thr Cys Gly Thr Val Val Ser Thr  
 231 20 25 30  
 232 Thr Asn Phe Ile Lys Ala Glu Trp Lys Gly Arg Val Thr Leu Lys Gln  
 233 35 40 45  
 234 Tyr Pro Arg Lys Asn Leu Phe Leu Val Glu Val Thr Gln Leu Thr Glu  
 235 49 55 60  
 236 Ser Asp Ser Gln Val Tyr Ala Cys Gly  
 237 64 70  
 238 <10> SEQ ID NO: 4  
 239 <11> LENGTH: 79  
 240 <12> TYPE: PPT  
 241 <13> ORGANISM: Homo sapiens  
 242 <400> SEQUENCE: 4  
 243 Leu Ser Ile Thr Cys Thr Val Ser Gly Ser Thr Phe Ser Asn Asp Tyr  
 244 1 5 10 15  
 245 Tyr Thr Trp Val Arg Gln Pro Pro Gly Arg Ile Gln Trp Ile Gly  
 246 20 25 30  
 247 Tyr Val Phe Tyr His Gly Thr Ser Asp Asp Thr Thr Pro Leu Arg Ser  
 248 35 40 45  
 249 Arg Val Thr Met Leu Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Arg  
 250 50 55 60  
 251 Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 252 64 70 75  
 253 <10> SEQ ID NO: 5  
 254 <11> LENGTH: 78  
 255 <12> TYPE: PPT  
 256 <13> ORGANISM: Homo sapiens  
 257 <400> SEQUENCE: 5  
 258 Val Thr Ile Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser Asn  
 259 1 5 10 15  
 260 Tyr Ala Asn Trp Val Gln Gln Lys Pro Asp His Leu Phe Thr Gly Ile  
 261 25 30 35  
 262 Gln Gly Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Ile Ser Gly

## RAW SEQUENCE LISTING

PARENT APPLICATION: US/09/651,150B

DATE: 11/08/2002

TIME: 11:17:17

&lt;input&gt; : D:\seqlist.txt

&lt;output&gt; : N:\CRF4\11082002\1651150B.raw

316 37 40 43  
 317 Ser Leu Ile Cys Asn Lys Ala Ala Leu Thr Ile Thr Gly Asn Gln Thr  
 318 44 46 66  
 319 Glu Arg Ala Asn Lys Tyr Ile Cys Ala  
 320 65 70  
 321 <210> SEQ ID NO: 6  
 322 <211> LENGTH: 77  
 323 <212> TYPE: PRT  
 324 <213> ORGANISM: Homo sapiens  
 325 <400> SEQUENCE: 6  
 326 Thr Ser Leu Asn Cys Thr Phe Ser Asp Ser Ala Ser Gln Tyr Ile Cys  
 327 1 10 15  
 328 Phe Tyr Ile Gln His Ser Gly Lys Ala Pro Lys Ala Leu Met Ser Ile  
 329 15 25 30  
 330 Phe Ser Asn Cys Glu Lys Glu Glu Gly Arg Ile Thr Ile His Leu Asn  
 331 35 40 45  
 332 Lys Ala Ser Leu His Phe Ser Leu His Ile Arg Asp Ser Gln Pro Ser  
 333 50 55 60  
 334 Asp Ser Ala Leu Tyr Leu Cys Ala  
 335 65 70 75  
 336 <210> SEQ ID NO: 7  
 337 <211> LENGTH: 75  
 338 <212> TYPE: PRT  
 339 <213> ORGANISM: Homo sapiens  
 340 <400> SEQUENCE: 7  
 341 Val Thr Leu Arg Cys Lys Pro Ile Ser Gly His Asn Ser Leu Ile Cys  
 342 1 10 15  
 343 Tyr Arg Gln Thr Met Met Arg Gln Ile Glu Leu Leu Ile Tyr Ile Asn  
 344 20 25 30  
 345 Asn Asn Val Pro Ile Asp Asp Ser Gly Met Pro Glu Asp Arg Ile Ser  
 346 25 40 45  
 347 Ala Lys Met Pro Asn Ala Ser Phe Ser Thr Leu Lys Ile Gln Pro Ser  
 348 50 55 60  
 349 Glu Pro Arg Asp Ser Ala Val Tyr Ile Cys Ala  
 350 65 70 75  
 351 <210> SEQ ID NO: 8  
 352 <211> LENGTH: 74  
 353 <212> TYPE: PRT  
 354 <213> ORGANISM: Homo sapiens  
 355 <400> SEQUENCE: 8  
 356 Val Glu Leu Thr Cys Thr Ala Ser Gln Lys Lys Ser Ile Gln Ile His  
 357 1 10 15  
 358 Trp Lys Asn Ser Asn Gln Ile Lys Ile Leu Gly Asn Gln Gly Ser Phe  
 359 20 25 30  
 360 Leu Thr Lys Gly Pro Ser Lys Leu Asn Asp Arg Ala Asp Ser Arg Arg  
 361 35 40 45  
 362 Ser Leu Trp Asp Gln Gly Asn Phe Pro Ile Ile Ile Lys Asn Leu Lys  
 363 50 55 60  
 364 Ile Glu Asp Ser Asp Thr Tyr Ile Cys Glu

## RAW SEQUENCE LISTING

DAIRI APPLICATION: US/09/651,150B

DAIRI: 11082002

TIME: 11:17:11

Input Set: D:\seqlist.txt

Output Set: N:\CRF4\11082002\I651150B.raw

414 <1> LENGTH: 16  
 415 <2> TYPE: PRT  
 416 <3> ORGANISM: Homo sapiens  
 417 <4> SEQUENCE: 9  
 418 Ala Lys Met Ser Cys Glu Ala Lys Thr Phe Pro Lys Gly Thr Thr Ile  
 419 I 10 15  
 420 Tyr Trp Leu Arg Glu Leu Gln Asp Ser Asn Lys Arg Arg Lys His The Gln  
 421 20 25 30  
 422 Phe Leu Arg Ser Arg Thr Ser Thr Lys Gly Ile Lys Tyr Gly Glu Arg  
 423 35 40 45  
 424 Val Lys Lys Arg Met Thr Leu Ser Phe Asn Ser Thr Ile Pro The Leu  
 425 50 55 60  
 426 Lys Ile Met Arg Val Lys Pro Glu Asp Ser Gly Ile Tyr The Cys Ala  
 427 65 70 75 80  
 428 <210> SEQ ID NO: 10  
 429 <211> LENGTH: 76  
 430 <212> TYPE: PRT  
 431 <213> ORGANISM: Homo sapiens  
 432 <400> SEQUENCE: 10  
 433 Val Thr 10 Thr Cys Pro Phe Thr Tyr Ala Thr Arg Gln Leu Lys Lys  
 434 I 5 10 15  
 435 Ser Phe Tyr Lys Val Glu Asp Gly Glu Leu Val Leu Ile Ile Asp Ser  
 436 20 25 30  
 437 Ser Ser Lys Gln Ala Lys Asp Pro Arg Tyr Lys Gly Arg Ile Thr Leu  
 438 35 40 45  
 439 Gln Ile Gln Ser Thr Thr Ala Lys Glu Phe Thr Val Thr Leu Lys His  
 440 50 55 60  
 441 Leu Gln Leu Asn Asp Ala Gly Gln Tyr Val Cys Gln  
 442 65 70 75  
 443 <210> SEQ ID NO: 11  
 444 <211> LENGTH: 84  
 445 <212> TYPE: PRT  
 446 <213> ORGANISM: Homo sapiens  
 447 <220> FEATURE:  
 448 <221> NAME/KEY: MISC\_FEATURE  
 449 <222> LOCATION: (6)..(51)  
 450 <223> OTHER INFORMATION: "Xaa" at positions 6-7, 9-18, 20, 22, 25-32, 34-35, 37-48  
 and 50  
 451 6-7, 9-18, 20, 22, 25-32, 34-35, 37-48  
 452 <220> FEATURE:  
 503 <221> NAME/KEY: MISC\_FEATURE  
 504 <222> LOCATION: (53)..(53)  
 505 <223> OTHER INFORMATION: "Xaa" at position 53 can be Phe, Val, or Ile.  
 513 <220> FEATURE:  
 514 <221> NAME/KEY: MISC\_FEATURE  
 515 <222> LOCATION: (54)..(76)  
 516 <223> OTHER INFORMATION: "Xaa" at positions 54-61, 71, and 74-76 can be any amino  
 acid.  
 522 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY  
PARENT APPLICATION: US/09/651,150B

DATE: 11-07-02  
TIME: 17:17:44

Input Set: D:\seqlist.txt  
Output Set: N:\CRF4\11082002\I651150B.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos: 6,11,10,11,12,13,14,15,16,10,18,11,22,21,10,12,8,29,30  
Seq#:11; Xaa Pos: 10,11,34,35,37,38,39,40,41,42,43,44,45,46,47,48,50,51,53  
Seq#:11; Xaa Pos: 34,35,56,57,58,59,60,61,62,63,64,65,71,73,74,75,76,79,80  
Seq#:11; Xaa Pos: 75  
Seq#:25; Xaa Pos: 1,4,5

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/651,150B

DATE: 11/08/2002

TIME: 10:15:14

Input Set : D:\seqlist.txt

Output Set : N:\CRF4\11082002\I651150B.raw

L:544 M: 341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:17  
L:548 M: 341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:18  
L:552 M: 341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:19  
L:556 M: 341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:198  
L:560 M: 341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:104  
L:564 M: 341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:86  
L:864 M: 341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0